

ABSTRACT OF THE DISCLOSURE

**APPARATUS AND METHOD OF DYNAMICALLY REPARTITIONING A
COMPUTER SYSTEM IN RESPONSE TO PARTITION WORKLOADS**

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A method, system and apparatus for dynamically repartitioning a partitioned computer system in response to workload demands are provided. In one embodiment, a monitoring software is used to monitor workloads on all resources in all the partitions. If a workload on a resource in a partition is determined to exceed a maximum threshold, a similar resource is allocated to the partition. The similar resource is preferentially an unassigned or unallocated resource. However, resources from other partitions may also be used. In another embodiment, a workload schedule is stored in a workload profile. If a scheduled workload in any of the resources of a partition is to exceed a maximum threshold, additional similar resources will be allocated to the partition before the scheduled workload.

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